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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/459,984	12/14/1999	OK BAE PARK	K-129	1879
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FLESHNER & KIM, LLP			EXAMINER	
P.O. BOX 2212 CHANTILLY,			NGUYEN, TOAN D	
			ART UNIT	PAPER NUMBER
			2665	W
			DATE MAILED: 08/22/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
•	09/459,984	PARK, OK BAE				
Office Action Summary	Examiner	Art Unit				
	Toan D Nguyen	2665				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute.	36(a). In no event, however, may a rely within the statutory minimum of thirty will apply and will expire SIX (6) MONT, cause the application to become ABA	ply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. INDONED (35 U.S.C. § 133).				
 Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 						
Status 1)⊠ Responsive to communication(s) filed on 03 J	luna 2002					
	is action is non-final.					
·		ore proposition on to the month is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application	ı .					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Arimilli (U.S. Patent 5,757,801).

For claim 1, Arimilli discloses advanced priority statistical multiplexer comprising:

plurality of conversion processors (figure 4B, col. 7 lines 5-17 and col. 7 lines 25-29),

wherein each conversion processor is configured to modulate communication signal provided by
a user application to create an interim modulated signal (col. 7 lines 29-32 and col. 7 lines 4753), analyze the communication signal to determine a type of communication signal and
demodulated the interim modulated signal to create a secondary original signal based on the type
of communication signal (col. 12 lines 15-40);

a main controller configured to process signals provided from at least one of the conversion processors (figure 4, col. 7 lines 41-46);

a multiplexing/demultiplexing processor configured to logically multiplex signals output from the main controller, and to demultiplex an external provided signal (figure 3, col. 5 lines 2-14).

For claim 2, Arimilli discloses a pulse code modulation (PCM) modulator configured to modulate a signal provided by a user application by PCM mode (col. 12 lines 18-31);

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a digital signal processor configured to determine a type of a modulated signal provided from the PCM modulator and to output the modulated signal to a path corresponding to the determined type (figure 6C, col. 10 lines 27-34); and

a demodulating/modulating portion configured to demodulated the modulated signal provided from the digital signal processor (figure 6C, col. 10 lines 27-34).

For claim 3, Arimilli discloses each conversion processor also includes a first line connector, configures to communicate with a user application, that is coupled to the PCM modulator (figure 4A, lines 310a and 310b).

For claim 4, Arimilli discloses further:

a first demodulator/modulator configured to demodulate a first type of communication signal output from the digital signal processor to create a first type of secondary original signal (figure 3, col. 5 lines 21-33);

a second demodulator/modulator configured to demodulate a second type of communication signal output from the digital signal processor to create a secondary original signal (col. 5 lines 21-33);

a third demodulator/modulator configured to demodulate a third type of communication signal output from the digital signal processor to create a third type of secondary original signal (col. 5 lines 21-33).

For claim 5, Arimilli discloses wherein each conversion processor also includes a first connection controller configured to generate a serial signal, based on the secondary original signal, and to output the serial signal to the main controller (figures 6A and 6C, col. 9 lines 32-42 and col. 10 lines 27-40).

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For claim 6, Arimilli discloses wherein the multiplexing/demultiplexing processor comprises a modern processor for converting a call processing request signal and transmission data provided from the main controller to analog signals (figure 6B, col. 10 lines 7-12).

For claim 7, Arimilli discloses a second line connector configured to process communications with an external apparatus, wherein the second line connector is coupled to the modem processor (figure 6B, col. 10 lines 7-12).

For claim 8, Arimilli discloses a second connection controller for controlling signals provided from the main controller to the modem processor (figure 6B, col. 10 lines 7-12).

For claim 9, Arimilli discloses wherein the call control data comprises at least one of a message type, a port discriminator, a user information, and a characteristic information (col. 7 lines 25-35).

For claim 10, Arimilli discloses wherein the message type is one of setting, release and maintenance of a call (col. 14 lines 12-44).

For claim 11, Arimilli discloses wherein the port discriminator is indicative of a discriminator of one of the conversion processors (figure 4A, col. 7 lines 6-11).

For claim 12, Arimilli discloses wherein the characteristic information includes at least one of a signal type, a data coding mode of the user application, a modem mode and information for a communication line speed (col. 12 lines 18-31 and col. 12 lines 45-55).

For claim 13, Arimilli discloses advanced priority statistical multiplexer comprising: modulating communication signal provided from a user application using a conversion processor to create an interim modulated signal (col. 7 lines 29-32 and col. 7 lines 47-53);

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determining a type of communication signal that was modulated to create the interim modulated signal (col. 12 lines 15-40);

demodulating the interim modulated signal with a demodulator having a path set to correspond with the determined type of communication signal (col. 12 lines 15-40);

processing a signal from the conversion processor using a main controller that is coupled to the conversion processor (figure 4, col. 7 lines 41-46); and

logically multiplexing signals output from the main controller with a multiplexing processor, wherein the multiplexing processor is coupled to the main controller (figure 3, col. 5 lines 2-14).

For claim 14, Arimilli discloses wherein a first type of communication signal is a voice signal, a second type of signal is a facsimile signal, and a third type of communication signal is a data signal (figure 3, col. 5 lines 21-33).

For claim 15, Arimilli discloses controlling the conversion processor with the multiplexing processor to match their respective signal transmission modes (figure 3, col. 5 lines 21-33).

For claim 16, Arimilli discloses wherein the call control data includes at least one of a message type, a port discriminator, user information, and a user characteristic information (col. 7 lines 25-35).

For claim 17, Arimilli discloses wherein the message type is one of a setting, a release and a maintenance of a call. (col. 14 lines 12-44).

For claim 18, Arimilli discloses wherein the port discriminator is indicative of a conversion processor coupled to a corresponding user application (figure 4A, col. 7 lines 6-11).

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For claim 19, Arimilli discloses wherein the user characteristic information includes at least one of a signal type, a data coding mode of the user application, a modem mode and information for a communication line speed (col. 12 lines 18-31 and col. 12 lines 45-55).

For claim 20, Arimilli discloses advanced priority statistical multiplexer comprising: demultiplexing an externally provided multiplexed input signal using a demultiplexing processor (col. 5 lines 7-11 and col. 5 lines 34-46);

processing signals transmitted from the demultiplexing processor using a main controller coupled to the demultiplexing processor (col. 5 lines 34-46); and

modulating based on a type of the communication signal and then demodulating signals provided from the main controller using one of a plurality of conversion processors to transmit the signals respectively to a corresponding user application (col. 7 lines 29-32 and col. 7 lines 47-53), wherein each of the plurality of conversion processors is coupled to the main controller and a corresponding user application (figure 4, col. 7 lines 41-46), and wherein each of the plurality of conversion processors comprises a first demodulator/modulator configured to modulate a first type of communication signal provided from the main controller, a second demodulator/modulator configured to modulate the second type of communication signal provided from the main controller, and a third demodulator /modulator configured to modulate the third type of communication signal provided from the main controller (figure 3, col. 5 lines 21-33).

For claim 21, Arimilli discloses wherein the communication signal is one of a call processing request signal and transmission data (figure 3, col. 5 lines 1-14).

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For claims 22 and 23, Arimilli discloses wherein the main controller is further configured to receive call processing request signals provided from at least one of the conversion processors to generate call control data that is added to transmission data in at least one header field (figure 17, col. 27 lines 52-63).

For claim 24, Arimilli discloses wherein each conversion processor is also configured to demodulate an externally provided signal and to provide the demodulated signal to a corresponding user application (col. 5 lines 25-28).

For claim 25, Arimilli discloses wherein the first demodulator/modulator is further configured to modulate a first type of communication signal provided from the main controller, wherein the second demodulator/modulator is further configured to modulate a second type of communication signal provided from the main controller, and wherein the third demodulator/modulator is configured to modulate a third type of communication signal provided from the main controller (col. 5 lines 21-33).

For claim 26, Arimilli discloses wherein the communication signal is one of a call processing request signal and transmission data (figure 3, col. 5 lines 1-14).

For claim 27, Arimilli discloses wherein processing a signal from the conversion processor using a main controller that is coupled to the conversion processor comprises processing a call processing request signal from the conversion processor using a main controller that is coupled to the conversion processor to generate call control data that is added to transmission data in at least one header field (figure 17, col. 27 lines 52-63).

For claim 28, Arimilli discloses wherein modulating a communication signal provided from a user using a conversion processor to create an interim modulated signal comprises modulating a

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communication signal provided from a user using a conversion processor to create an interim modulated signal using a pulse code modulation (PCM) mode (col. 12 lines 18-31).

For claim 29, Arimilli discloses wherein processing signals transmitted from the demultiplexing processor using a controller coupled to the demultiplexing processor comprises processing call processing request signals transmitted from the demultiplexing processor using a controller coupled to the demultiplexing processor (col. 5 lines 7-11 and col. 5 lines 34-46).

For claim 30, Arimilli discloses separating header data included in the call processing request signal provided from the demultiplexing processor (col. 38 lines 1-10).

Response to Arguments

3. Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 703-305-0140. The examiner can normally be reached on Monday- Friday (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 703-308-6602. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

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T.N.

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ALPUS H. HSU PRIMARY EXAMINER

Alfan vs. vsa